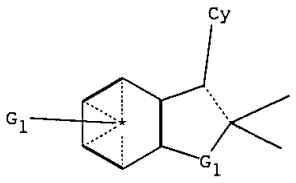
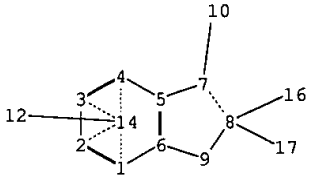
STN Structure : 193e.str





chain nodes :
    10 12
ring nodes :
    1 2 3 4 5 6 7 8 9 16 17
chain bonds :
    7-10
ring bonds :
    1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 8-16 8-17
exact/norm bonds :
    5-7 6-9 7-8 7-10 8-9 8-16 8-17
normalized bonds :
    1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
    containing 1 :

G1:O,S

Match level :
    1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 12:Atom
    14:CLASS 16:Atom 17:Atom
Generic attributes :
    10:
    Saturation   : Saturated

Connecting via Winsock to STN

Trying 3106016892...Open

Welcome to STN International! Enter x:x
LOGINID:ssspta1612BXR
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2	Sep 29	The Philippines Inventory of Chemicals and Chemical Substances (PICCS) has been added to CHEMLIST
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NEWS 6	Oct 27	Plasdoc Key Serials Dictionary and Echoing added to Derwent Subscriber Files WPIDS and WPIX
NEWS 7	Nov 29	Derwent announces further increase in updates for DWPI
NEWS 8	Dec 5	French Multi-Disciplinary Database PASCAL Now on STN
NEWS 9	Dec 5	Trademarks on STN - New DEMAS and EUMAS Files
NEWS 10	Dec 15	2001 STN Pricing
NEWS 11	Dec 17	Merged CEABA-VTB for chemical engineering and biotechnology
NEWS 12	Dec 17	Corrosion Abstracts on STN
NEWS 13	Dec 17	SYNTHLINE from Prous Science now available on STN
NEWS 14	Dec 17	The CA Lexicon available in the CAPLUS and CA files
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NEWS 16	Feb 06	Engineering Information Encompass files have new names
NEWS 17	Feb 16	TOXLINE no longer being updated

NEWS EXPRESS	FREE UPGRADE 5.0e FOR STN EXPRESS 5.0 WITH DISCOVER! (WINDOWS) NOW AVAILABLE
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 18:04:47 ON 16 APR 2001

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.15	0.15

FILE 'REGISTRY' ENTERED AT 18:04:52 ON 16 APR 2001

STRUCTURE FILE UPDATES: 15 APR 2001 HIGHEST RN 331412-09-0
DICTIONARY FILE UPDATES: 15 APR 2001 HIGHEST RN 331412-09-0

TSCA INFORMATION NOW CURRENT THROUGH July 8, 2000

Please note that search-term pricing does apply when conducting SmartSELECT searches.

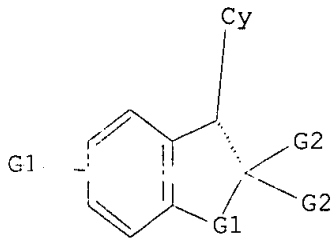
Structure search limits have been increased. See HELP SLIMIT for details.

=>
Uploading 193a.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS
L1 STR



G1 O,S
G2 Me,Et

Structure attributes must be viewed using STN Express query preparation.

=>
Uploading 193b.str

L2 STRUCTURE UPLOADED

=> s l1 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 133.25 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

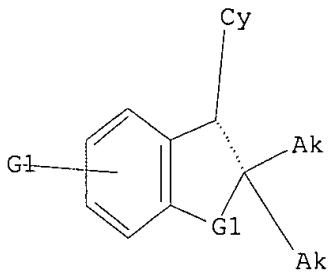
FULL SEARCH INITIATED 18:06:25 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 227201 TO ITERATE

100.0% PROCESSED 227201 ITERATIONS 117 ANSWERS
SEARCH TIME: 00.00.07

L3 117 SEA SSS FUL L1

=> d l2

L2 HAS NO ANSWERS
L2 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l2 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 133.25 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

FULL SEARCH INITIATED 18:06:39 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 256218 TO ITERATE

100.0% PROCESSED 256218 ITERATIONS 119 ANSWERS
SEARCH TIME: 00.00.07

L4 119 SEA SSS FUL L2

=> file ca

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	267.43	267.58

FILE 'CA' ENTERED AT 18:06:50 ON 16 APR 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1967 - 12 Apr 2001 VOL 134 ISS 17
FILE LAST UPDATED: 12 Apr 2001 (20010412/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

Now you can extend your author, patent assignee, patent information, and title searches back to 1907. The records from 1907-1966 now have this searchable data in CAOLD. You now have electronic access to all of CA: 1907 to 1966 in CAOLD and 1967 to the present in CA on STN.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

=> d his

(FILE 'HOME' ENTERED AT 18:04:47 ON 16 APR 2001)

FILE 'REGISTRY' ENTERED AT 18:04:52 ON 16 APR 2001
L1 STRUCTURE UPLOADED
L2 STRUCTURE UPLOADED
L3 117 S L1 FULL
L4 119 S L2 FULL

FILE 'CA' ENTERED AT 18:06:50 ON 16 APR 2001

=> s l4 not l3

6 L4
6 L3
L5 0 L4 NOT L3

=> s l4 not l3

6 L4
6 L3
L6 0 L4 NOT L3

=> s l4

L7 6 L4

=> s l3

L8 6 L3

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.48	270.06

FILE 'REGISTRY' ENTERED AT 18:11:39 ON 16 APR 2001
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STRUCTURE FILE UPDATES: 15 APR 2001 HIGHEST RN 331412-09-0
DICTIONARY FILE UPDATES: 15 APR 2001 HIGHEST RN 331412-09-0

TSCA INFORMATION NOW CURRENT THROUGH July 8, 2000

Please note that search-term pricing does apply when conducting SmartSELECT searches.

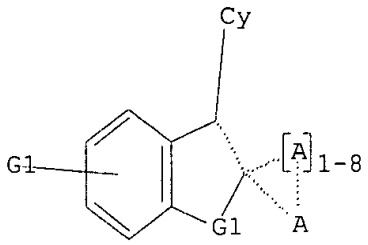
Structure search limits have been increased. See HELP SLIMIT for details.

=>
Uploading 193c.str

L9 STRUCTURE UPLOADED

=> d l9

L9 HAS NO ANSWERS
L9 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l9

SAMPLE SEARCH INITIATED 18:12:02 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 37176 TO ITERATE

2.7% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.02

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 732092 TO 754948
PROJECTED ANSWERS: 0 TO 0

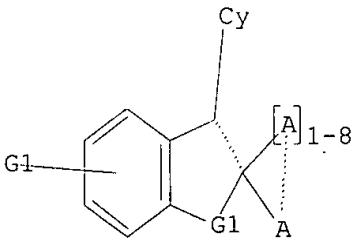
L10 0 SEA SSS SAM L9

=>
Uploading 193d.str

L11 STRUCTURE UPLOADED

=> d l11

L11 HAS NO ANSWERS
L11 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l11

SAMPLE SEARCH INITIATED 18:13:45 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 37176 TO ITERATE

2.7% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 732092 TO 754948
PROJECTED ANSWERS: 0 TO 0

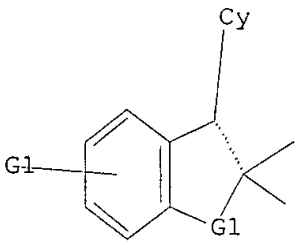
L12 0 SEA SSS SAM L11

=>
Uploading 193e.str

L13 STRUCTURE UPLOADED

=> d l13

L13 HAS NO ANSWERS
L13 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l13

SAMPLE SEARCH INITIATED 18:15:18 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 3342 TO ITERATE

29.9% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 63376 TO 70304
PROJECTED ANSWERS: 0 TO 0

L14 0 SEA SSS SAM L13

=> s l14 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 133.25 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

FULL SEARCH INITIATED 18:15:25 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 67453 TO ITERATE

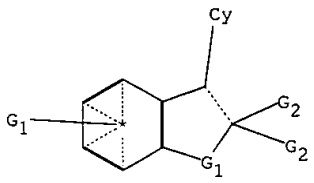
100.0% PROCESSED 67453 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.04

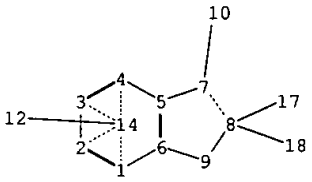
L15 0 SEA SSS FUL L13

Page 8

```
=> d his

     (FILE 'HOME' ENTERED AT 17:55:16 ON 16 APR 2001)

     FILE 'REGISTRY' ENTERED AT 17:55:32 ON 16 APR 2001
L1              STRUCTURE UPLOADED
L2           10 S L1
L3              STRUCTURE UPLOADED
L4            0 S L3
L5          117 S L4 FULL

     FILE 'CA' ENTERED AT 17:58:46 ON 16 APR 2001
L6            6 S L5

     FILE 'CAOLD' ENTERED AT 17:59:18 ON 16 APR 2001

=> d l5

YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:n


=> s l5
```

STN Structure : 193a.str





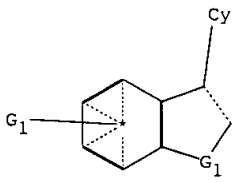
chain nodes :
    10 12 17 18
ring nodes :
    1 2 3 4 5 6 7 8 9
chain bonds :
    7-10 8-17 8-18
ring bonds :
    1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9
exact/norm bonds :
    5-7 6-9 7-8 7-10 8-9 8-17 8-18
normalized bonds :
    1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
    containing 1 :

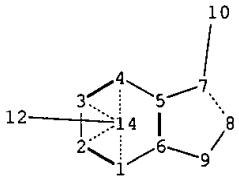
G1:O,S

G2:CH3,Et

Match level :
    1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 12:Atom
    14:CLASS 17:CLASS 18:CLASS

STN Structure : 193.str





chain nodes :
10 12
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
7-10
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9
exact/norm bonds :
5-7 6-9 7-8 7-10 8-9
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

G1:O,S

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 12:Atom
14:CLASS

Connecting via Winsock to STN

Trying 3106016892...Open

Welcome to STN International! Enter x:x
LOGINID:ssspta1612BXR
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

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NEWS	4	Oct 27	SET ABBREVIATIONS and SET PLURALS extended in Derwent World Patents Index files
NEWS	5	Oct 27	Patent Assignee Code Dictionary now available in Derwent Patent Files
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NEWS	11	Dec 17	Merged CEABA-VTB for chemical engineering and biotechnology
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* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 17:55:16 ON 16 APR 2001

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.15	0.15

FILE 'REGISTRY' ENTERED AT 17:55:32 ON 16 APR 2001
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STRUCTURE FILE UPDATES: 15 APR 2001 HIGHEST RN 331412-09-0
DICTIONARY FILE UPDATES: 15 APR 2001 HIGHEST RN 331412-09-0

TSCA INFORMATION NOW CURRENT THROUGH July 8, 2000

Please note that search-term pricing does apply when conducting SmartSELECT searches.

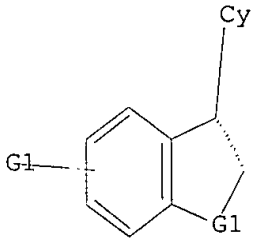
Structure search limits have been increased. See HELP SLIMIT for details.

=>
Uploading 193.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS
L1 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 17:56:01 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 12714 TO ITERATE

7.9% PROCESSED 1000 ITERATIONS 10 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 247543 TO 261017
PROJECTED ANSWERS: 1866 TO 3218

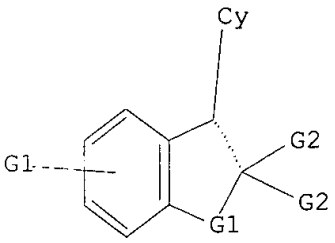
L2 10 SEA SSS SAM L1

=>
Uploading 193a.str

L3 STRUCTURE UPLOADED

=> d l3

L3 HAS NO ANSWERS
L3 STR



G1 O,S
G2 Me,Et

Structure attributes must be viewed using STN Express query preparation.

=> s l3

SAMPLE SEARCH INITIATED 17:58:25 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 11254 TO ITERATE

8.9% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 218739 TO 231421
PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L3

=> s l4 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 133.25 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

FULL SEARCH INITIATED 17:58:32 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 227201 TO ITERATE

100.0% PROCESSED 227201 ITERATIONS 117 ANSWERS
SEARCH TIME: 00.00.09

L5 117 SEA SSS FUL L3

=> file ca

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	134.80	134.95

FILE 'CA' ENTERED AT 17:58:46 ON 16 APR 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1967 - 12 Apr 2001 VOL 134 ISS 17
FILE LAST UPDATED: 12 Apr 2001 (20010412/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

Now you can extend your author, patent assignee, patent information, and title searches back to 1907. The records from 1907-1966 now have this searchable data in CAOLD. You now have electronic access to all of CA: 1907 to 1966 in CAOLD and 1967 to the present in CA on STN.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

=> s l5

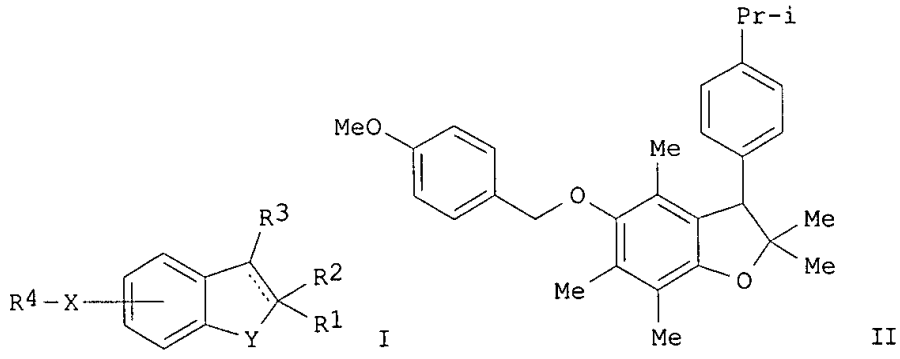
L6 6 L5

=> d l6, ibib abs fhitstr, 1-6

L6 ANSWER 1 OF 6 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 130:38285 CA
TITLE: Benzofuran derivatives useful for suppressing neurodegeneration.
INVENTOR(S): Ohkawa, Shigenori; Setoh, Masaki; Kakihana, Mitsuru; Okura, Masahiro
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 132 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9855454	A2	19981210	WO 1998-JP2482	19980604
WO 9855454	A3	19990304		
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GW, HU, ID, IL, IS, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9875503	A1	19981221	AU 1998-75503	19980604
JP 11049765	A2	19990223	JP 1998-155709	19980604
EP 988289	A2	20000329	EP 1998-923128	19980604
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRIORITY APPLN. INFO.:			JP 1997-148325	19970605
			WO 1998-JP2482	19980604

OTHER SOURCE(S): MARPAT 130:38285
GI



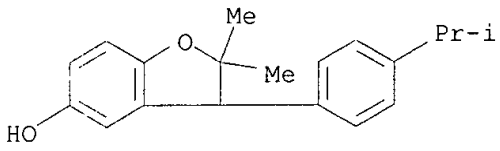
AB Title compds. I [R1, R2 = H, (un)substituted hydrocarbon group; or R1 and R2 form a 3- to 8-membered carbo- or heterocyclic ring which may be

substituted; R3 = H, (un)substituted lower alkyl or arom. group; R4 = (un)substituted arom. or araliph. group, or acyl; X , Y = O or S which may be oxidized; benzene ring may be further substituted] and their salts are disclosed. The compds. suppress .beta.-amyloid toxicity, and are thus useful as agents for treating of preventing neurodegenerative diseases such as Alzheimer's disease or Parkinsonism. Prepns. of 33 compds. I and their intermediates are described. For instance, etherification of 3-(4-isopropylphenyl)-2,2,4,6,7-pentamethyl-2,3-dihydrobenzofuran-5-ol with 4-methoxybenzyl chloride using NaH in DMF gave 49% title compd. II. Seven example compds. gave 27.3-47.0% in vitro protection of human neuroblastoma SK-N-SH cells from .beta.-amyloid neurotoxicity.

IT **216989-52-5P**, 3-(4-Isopropylphenyl)-2,2-dimethyl-2,3-dihydrobenzofuran-5-ol
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(intermediate; prepn. of benzofuran derivs. as agents for suppressing neurodegeneration)

RN 216989-52-5 CA

CN 5-Benzofuranol, 2,3-dihydro-2,2-dimethyl-3-[4-(1-methylethyl)phenyl]- (9CI) (CA INDEX NAME)



L6 ANSWER 2 OF 6 CA COPYRIGHT 2001 ACS

ACCESSION NUMBER: 109:149335 CA

TITLE: Preparation of 5-hydroxycoumaran derivatives as cardiovascular and antiallergy agents

INVENTOR(S): Terao, Shinji; Maki, Yoshitaka

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: Eur. Pat. Appl., 39 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

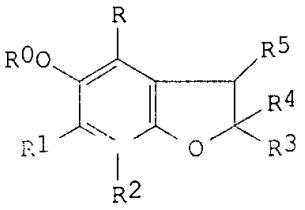
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 273647	A1	19880706	EP 1987-311122	19871217
EP 273647	B1	19920311		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 01272578	A2	19891031	JP 1987-310346	19871207
JP 08005871	B4	19960124		
AT 73448	E	19920315	AT 1987-311122	19871217
DK 8706789	A	19880628	DK 1987-6789	19871222
US 4857516	A	19890815	US 1987-136273	19871222
HU 48609	A2	19890628	HU 1987-5988	19871223
HU 206332	B	19921028		
AU 8783040	A1	19880630	AU 1987-83040	19871224

AU 605818 B2 19910124
CA 1325635 A1 19931228 CA 1987-555354 19871224
PRIORITY APPLN. INFO.: JP 1986-313380 19861227
JP 1987-235491 19870918
EP 1987-311122 19871217
OTHER SOURCE(S): MARPAT 109:149335
GI



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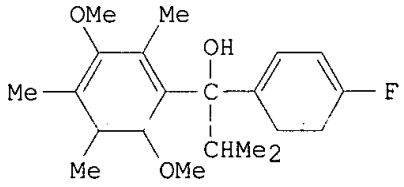

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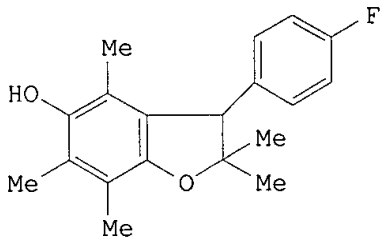
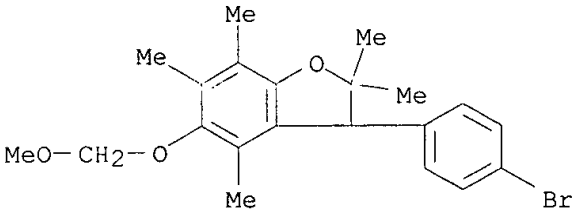


III

AB The title compds. [I; R = alkyl; R0 = H, acyl; R1-R4 = (un)substituted alkyl; R1R2 = CH:CHCH:CH; R3R4 = polymethylene; R5 = (un)substituted alkyl, aryl, heterocyclyl] were prepd. 4-FC6H4COCHMe2 (prepn. given) was added to 1-bromo-2,5-dimethoxy-3,4,6-trimethylbenzene in THF previously treated with BuLi and the mixt. stirred 1 h to give 92.3% diphenylpropanol
II which was refluxed 18 h in 47 wt.% aq. HBr to give 74.8% title compd. III. The latter, at 100 mg/kg orally gave 93% inhibition of the excitatory behavior induced by spinal intrathecal injection of FeCl2 soln. in mice.

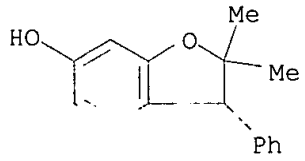
IT **116707-50-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and reaction of, in prepn. of cardiovascular and antiallergic agents)
RN 116707-50-7 CA
CN Benzofuran, 3-(4-bromophenyl)-2,3-dihydro-5-(methoxymethoxy)-2,2,4,6,7-pentamethyl- (9CI) (CA INDEX NAME)



L6 ANSWER 3 OF 6 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 108:112209 CA
TITLE: A process for the preparation of 2,3-dihydrobenzofuran derivatives from resorcinol derivatives
INVENTOR(S): Takahashi, Katsuya; Hashimoto, Isao
PATENT ASSIGNEE(S): Mitsui Petrochemical Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62138487	A2	19870622	JP 1985-279193	19851213
JP 04046273	B4	19920729		

GI For diagram(s), see printed CA Issue.
AB The title compds. (I), useful as intermediates for agrochems., pharmaceuticals, and perfumes, are prepd. from 1,3-dihydroxybenzenes (II).
IT **113168-21-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, by cyclocondensation of resorcinol with ketone)
RN 113168-21-1 CA
CN 6-Benzofuranol, 2,3-dihydro-2,2-dimethyl-3-phenyl- (9CI) (CA INDEX NAME)

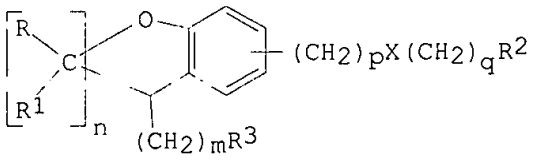


L6 ANSWER 4 OF 6 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 105:226586 CA
TITLE: Bicyclic benzoxy heterocyclic ethers and thioethers as H2-receptor antagonists
INVENTOR(S): Kuhla, Donald Ernest; Campbell, Henry Flud; Studt, William Lyon; Neuenschwander, Kent William

PATENT ASSIGNEE(S): Rorer International (Overseas), Inc., USA
SOURCE: PCT Int. Appl., 79 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8602550	A1	19860509	WO 1985-US2080	19851022
W: AU, JP				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
US 4612309	A	19860916	US 1984-664063	19841023
AU 8550688	A1	19860515	AU 1985-50688	19851022
AU 578199	B2	19881013		
EP 198918	A1	19861029	EP 1985-905731	19851022
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 62500593	T2	19870312	JP 1985-505036	19851022
US 4668673	A	19870526	US 1986-881122	19860702
US 4722925	A	19880202	US 1987-21147	19870303
US 4777168	A	19881011	US 1988-142084	19880107
PRIORITY APPLN. INFO.:			US 1984-664063	19841023
			WO 1985-US2080	19851022
			US 1986-881122	19860702
			US 1987-21147	19870303

GI



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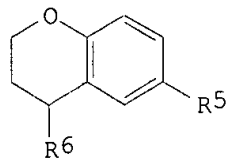

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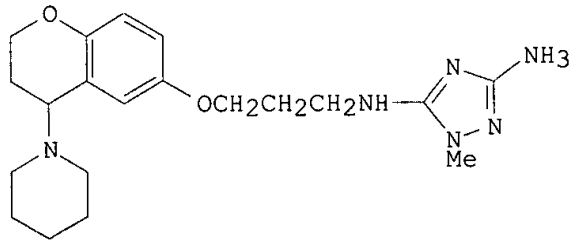


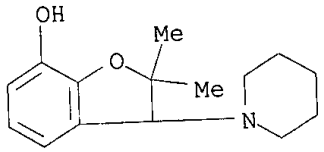
III

AB Title compds. I [R, R1 = H, alkyl; R2 = NHR4, amino, N-contg. heterocycle, amidino; R3 = amino, amidino; R4 = amidino, thiocarboxamidino, cyclobutendionyl, N- or N,S-contg. heterocycle; n = 1, 2; p = 0, 1; q = 2-4; m = 0-2; X = O, S, S(O), S(O)2], useful as H2-receptor antagonists (no data), are prepd. Thus, 6-methoxy-4-benzopyranone was hydrogenated to

give benzopyran II (R5 = OMe, R6 = OH), which was mesylated and treated with piperidine to give II (R5 = OMe, R6 = piperidino). This was demethylated and alkylated to yield II (R5 = OCH2CH2CH2Br, R6 = piperidino), which was treated with NaN3 and reduced to form II (R5 = OCH2CH2CH2NH2, R6 = piperidino). This was cyclized with PhCH:NNMeC(:NCN)SMe to give benzopyranyloxypropylaminotriazole III.

IT **105329-74-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and alkylation of)

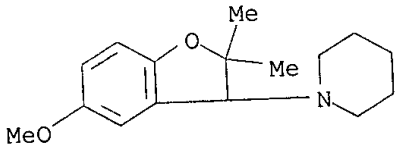
RN 105329-74-6 CA
CN 7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-3-(1-piperidinyl)- (9CI) (CA INDEX NAME)



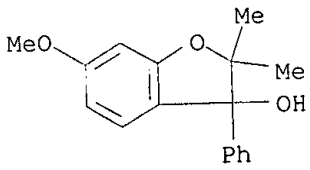
L6 ANSWER 5 OF 6 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 81:135855 CA
TITLE: Benzoheterocyclic derivatives. 15. Synthesis of benzofuran derivatives. 3
AUTHOR(S): Hirose, Noriyasu; Kuriyama, Shizuo; Sohda, Shigeru
CORPORATE SOURCE: Res. Lab., Eisai Co., Ltd., Tokyo, Japan
SOURCE: Yakugaku Zasshi (1974), 94(8), 905-12
CODEN: YKKZAJ
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
GI For diagram(s), see printed CA Issue.
AB 3-Substituted amino- or aminomethyl-2,3-dihydrobenzofurans I (R = OCH2CH2NMe2, substituted amino, substituted aminomethyl; R1 = H, Me) were prepd. Special emphasis was placed on the 5-position, which corresponds to the meta position of the phenethylamine skeleton. I (R = CN, R1 = Me) was obtained in a good yield by cyanation of I (R = Br, R1 = Me) with CuCN. The analgesic effect of these benzofuran derivs. was comparable to that of aminopyrine.

IT **53903-28-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 53903-28-9 CA
CN Piperidine, 1-(2,3-dihydro-5-methoxy-2,2-dimethyl-3-benzofuranyl)- (9CI) (CA INDEX NAME)



L6 ANSWER 6 OF 6 CA COPYRIGHT 2001 ACS
ACCESSION NUMBER: 75:63523 CA
TITLE: Photolysis of 2-(benzyloxy)-4-(dodecyloxy)benzophenone and 2-isopropoxy-4-methoxybenzophenone
AUTHOR(S): Lappin, Gerald R.; Zannucci, J. S.
CORPORATE SOURCE: Tennessee Eastman Co. Div., Eastman Kodak Co., Kingsport, Tenn., USA
SOURCE: J. Org. Chem. (1971), 36(13), 1808-11
CODEN: JOCEAH
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB The photolysis of 2-(benzyloxy)-4-(dodecyloxy)benzophenone (I) or of 2-isopropoxy-4-methoxybenzophenone (II) proceeded mainly via ring closure between the carbonyl C and the .alpha. carbon of the 2 substituent to give 6-(dodecyloxy)-2,3-dihydro-2,3-diphenyl-3-benzofuranol (III) or 2,3-dihydro-2,2-dimethyl-6-methoxy-3-phenyl-3-benzofuranol (IV), resp. The quantum efficiencies for disappearance of starting ketone and for cyclization decreased significantly with an increase in solvent polarity. The lifetime of the excited state, believed to be 3(n, .pi.*), was about 3 .times. 10-8 sec, unusually short for a benzophenone. Further photolysis of I or III resulted in dehydration to give 6-(dodecyloxy)-2,3-diphenylbenzofuran (V) and partial cyclization of V to 11-(dodecyloxy)benzo[b]phenanthro[9,10-d] furan, but further photolysis of IV gave only 2-hydroxy-4-methoxybenzophenone. Both I and II gave the corresponding 4-alkoxy-2-hydroxybenzophenone as a minor product.
IT **28856-53-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 28856-53-3 CA
CN 3-Benzofuranol, 2,3-dihydro-6-methoxy-2,2-dimethyl-3-phenyl- (8CI) (CA INDEX NAME)



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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)		

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                                                        ENTRY     SESSION
                                                        -3.36       -3.36
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